

Global Collimating Lens Market Size study & Forecast, by Light Source (LED, Laser, Xenon Lamp, Infrared Light, RGB) By Material (Molded Glass, Molded Plastic, Others) By Wavelength (Less Than-1000 Nm, 1001-1500 Nm, 1501-2000 Nm, 2001Nm & Above), By End User (Automobile, Medical, Lidar, Light And Display Measurement, Spectroscopy, Interferometry, Others) and Regional Analysis, 2023-2030

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Abstracts

Global Collimating Lens Market is valued at approximately USD 271.6 million in 2022 and is anticipated to grow with a healthy growth rate of more than 5.8% over the forecast period 2023-2030. Collimating lenses, characterized by their curved optical design, serve the primary purpose of directing light rays into the spectrometer unit with a parallel alignment. These lenses offer the user control over various aspects such as field of view, spatial resolution, illumination, and projection angles. The use of collimating lenses provides several benefits compared to other types of lenses, particularly in the development of optical systems for diverse applications. The Collimating Lens market is expanding because of factors such as the Surge in demand for medical laser systems and increasing demand for Optoelectronic Devices. Moreover, increasing demand for optoelectronic devices, such as laser diodes, LEDs, and fiber optic communications, contributes to the need for collimating lenses. These lenses play a vital role in achieving precise beam control and efficient light coupling in various applications within the optoelectronics industry. Its importance has progressively increased during the forecast year of 2023-2030.

According to Statista in 2021, the global market for medical laser systems was valued at

approximately USD 2.95 billion. It is projected that the market is anticipated to reach up to USD 5.8 billion by 2026. The growing acceptance of automation is generated fresh investment prospects for companies offering collimating lenses for industrial automation applications. Anti-reflective coatings technology is anticipated to lead to the production of exceptionally efficient and long-lasting collimating lenses. According to Statista, the Optoelectronics market is projected to reach up to USD 51.99 billion in 2023. In addition, growing demand for collimating lenses and increasing adoption of automation would create lucrative growth opportunities. However, the high cost of collimating lenses and limited availability of raw materials stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Collimating Lens Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific is dominating the market during the forecast period owing to the, increasing consumer demand for electronic products and the easy accessibility of affordable raw materials for electronic manufacturers.. Asia Pacific is the fastest growing region during the forecast period, owing to factors such as, rising demand for LED lighting systems. These lighting systems find extensive use in industrial settings, including streetlights, parking garages, outdoor area and modular lighting.

Major market player included in this report are:

Lightpath Technologies, Inc.

Avantes BV

Auer Lighting GmbH

The Optoelectronics co. Ltd.

Thorlabs, Inc.

Axetris AG

Focuslight Technologies Inc.

Edmund Optics Inc.

Quarton Inc,

IPG Photonics Corporation

Recent Developments in the Market:

In June 2022, Ocean Insights expanded its Rochester, by doubling its engineering, manufacturing, and support space. The company aimed to develop a spectrum system for various industries, including consumer electronics, at the newly added site. The expansion was expected to increase the company's manufacturing capacity and leverage the new 13,528-square-foot facility to enhance its portfolio of photonics products and application expertise.

In May 2022, Focuslight Technologies Inc. introduced the Focuslight Blue Meniscus SAC, a novel Slow Axis Collimator (SAC) with an effective focal length (EFL) of 9.7 mm. This SAC utilizes a concave-convex, cylindrical lens design specifically engineered for the purpose of collimating the slow axis of laser diodes.

Global Collimating Lens Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Light Source, Material, Wavelength, End-User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Light Source:

LED

Laser

Xenon Lamp

Infrared Light

RGB

By Material:

Molded Glass

Molded Plastic

Others

By Wavelength:

Less Than-1000 Nm

1001-1500 Nm

1501-2000 Nm

2001Nm & Above

By End-User:

Automobile

Medical

Lidar

Light and Display Measurement

Spectroscopy

Interferometry

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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